State of California
Department of Food and Agriculture
Division of Measurement Standards

Certificate Number: 4815(a)-05

California Type Evaluation Program
Certificate of Approval
for Weighing and Measuring Devices

For:

Scale System Controller
Vehicle Scale Application

Model: WinVRS
Version: 1.0 and 1.07

Submitted by:

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Standard Features and Options

Primary weight indications and motion detection are provided by the compatible and certified indicating element
Weighmaster ticket printing system
Weigh-in/weigh-out capability
Vehicle, customer, and product ID
Multiple scale interface with scale identification
Gross/tare/net weight displays
Stored tare capability
Keyboard tare capability
Common tare capability (Version 1.07 only)

	Version 1.0	Version 1.07
Minimum system requirements:	Computer and monitor Alphanumeric keyboard Printer and mouse	Computer and monitor Alphanumeric keyboard Printer and mouse
Operating system:	Windows 95, 98, NT 4.0	Windows 98, 2000, NT 4.0, XP, ME
Program language:	C++	C++
Hardware:	166 MHz Pentium processor, 16 MB RAM	166 MHz Pentium processor, 16 MB RAM

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable technical requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: February 3, 2005

Mike Cleary, Director

Cardinal Scale Manufacturing Co.
Scale System Controller
Model: WinVRS, Version: 1.0 and 1.07

Application: Scale system controller for use with certified and compatible indicating and weighing elements.

Identification: Identification information is obtained by accessing the "Help" menu and then selecting "About".

Sealing: The system requires no provision for sealing and is protected by a code retained by the manufacturer. Sealing of metrological parameters is provided by the certified and compatible indicating and weighing elements.

Operation: The controller is used primarily for weigh-in/weigh-out applications. The specific weighing elements in use are automatically identified on the weight ticket and on the operator's display. Inbound and outbound weights are identified by the time and date on the printed weight ticket. The system controller only accepts gross weights from the digital weight indicator. Stored tare weights are identified as "Stored Weight" and keyboard tare weights are identified as "Keyboard Weight" on the printed weight ticket. Manual gross weight entries are permitted when communication between the system controller and indicator are lost, to correct erroneous tickets, or for entering gross and/or tare weights from other weight tickets. All manual gross weights are identified as Manual Weight on the weight ticket.

Test Conditions: This certificate supersedes Certificate of Approval Number 4815-98 and is issued to include the use of common tares to compute net weight. The evaluation was conducted in the lab. The Model WinVRS (Ver. 1.07) vehicle scale system controller was interfaced with two Cardinal Model 210 indicators (Certificate of Approval Number 5258-01), each connected to a load cell simulator. The emphasis of the evaluation was on operation, marking, printing format, and interaction with the digital weight indicators. Previous test conditions are listed below for reference.

Certificate of Approval Number 4815-98: The Model WinVRS (Ver. 1.0) vehicle scale system controller was interfaced with two Cardinal Model 748 indicators (Certificate of Approval Number 4021(a)-98), each connected to a load cell simulator. The emphasis of the evaluation was on operation, marking, printing format, and interaction with the digital weight indicators. Motion detection, momentary power loss, and several simulated weigh-in/weigh-out transactions were examined.

Results of the evaluation indicate the device complies with applicable requirements.

Type Evaluation Criteria Used: Title 4, California Code of Regulations, 2004 Edition

Tested By: K. Jones (CA)